

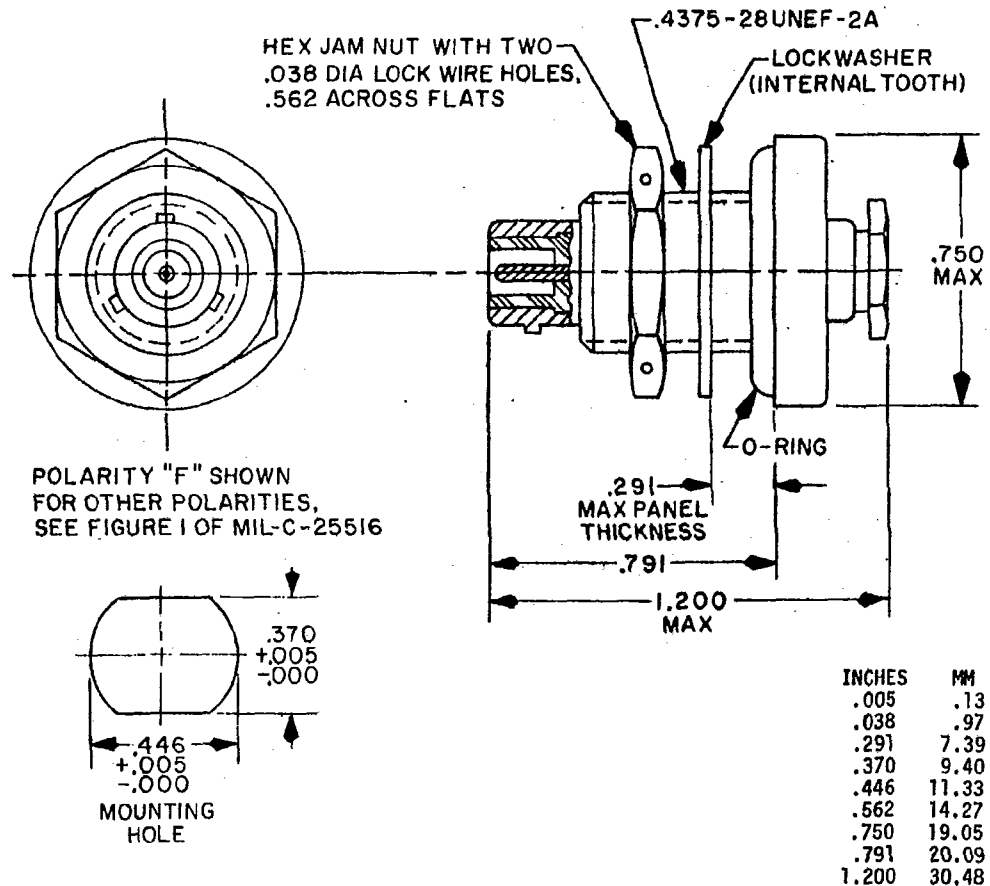
MIL-C-25516/19C  
 19 MAY 1980  
 Superseding  
 MIL-C-25516/19B(ASG)  
 3 April 1968

# MILITARY SPECIFICATION SHEET

CONNECTORS, ELECTRICAL, MINIATURE, COAXIAL, ENVIRONMENT RESISTANT TYPE,  
 COAXIAL PRESSURIZED RECEPTACLE, SERIES I, CLASS G, TYPE 1

This specification is approved for use by all Departments  
 and Agencies of the Department of Defense.

The complete requirements for procuring connectors described herein shall  
 consist of this document and the issue in effect of MIL-C-25516.



## NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only and are based upon 1.00 inch = 25.4 mm.
3. Unless otherwise specified, tolerance is  $\pm .010$  (.25 mm)
4. Mating dimensions shall be in accordance with MIL-C-25516.
5. Cable entry dimensions shall be suitable to accommodate the associated cable dimensions as specified in the Appendix of MIL-C-25516.
6. The maximum envelope dimensions are 1.200 and .750.

FIGURE 1. Connector, electrical receptacle.

## REQUIREMENTS:

Dimensions and configuration: See figure 1.

## Environmental and Mechanical:

Visual and mechanical inspection: Applicable.  
 Contact engaging and separating forces: Applicable.  
 Resistance to test probe damage: Applicable.  
 Contact retention: Applicable.  
 Durability: Applicable.  
 Cable retention force: Applicable.  
 Side load: Applicable.  
 Hermetic sealing: Not applicable.  
 Thermal shock: Applicable.  
 Shock: Applicable.  
 Vibration: Applicable.  
 High temperature: Applicable.  
 Fuel immersion: Applicable.  
 Altitude humidity cycling: Applicable.  
 Ozone exposure: Applicable.  
 Corrosion resistance: Applicable.  
 Sulphide immersion: Applicable.  
 Maintenance aging: Applicable.

## Electrical:

Insulation resistance: Applicable.  
 Dielectric withstanding voltage: Applicable.  
 Contact resistance: Applicable.  
 Low signal level contact resistance: Applicable.  
 Shield clamp resistance: Shall not exceed 10 milliohms (shielded cables only).

Part number: M25516/19- (dash number from table I) 1/.

TABLE I. Dash number and polarity. 2/

Notes	Dash number	Polarity	*Associated cable
*Complete part number consists of added digits describing typical cable See appendix The letters (E, F, G, etc.) are not part of part number	-03	E	-XX
	-04	F	-XX
	-05	J	-XX
	-06	K	-XX
	-07	L	-XX
	-08	M	-XX
	-53 <u>3</u> /	E	-XX
	-54 <u>3</u> /	F	-XX
	-55 <u>3</u> /	J	-XX
	-56 <u>3</u> /	K	-XX
	-57 <u>3</u> /	L	-XX
	-58 <u>3</u> /	M	-XX

1/ Dash numbers -01 (configuration A), -02 (configuration B), -09 (configuration N) and -10 (configuration O) per figure 1 of the basic are cancelled.

2/ Inactive for new design for Naval Air Systems Command.

3/ These connectors have double flats on the mounting portion of the connector. These connectors shall mount in holes that have  $0.370 \pm 0.010$  between the flats. Jacks that mount in double D mounting holes are indicated by part numbers -5X.

NOTE: Letters are not used in this revision to identify changes with respect to the previous issue, due to the extensiveness of the changes.

MIL-C-25516/19C

Custodians:

Navy - EC  
Air Force - 85

Review activities:

Navy - AS  
Air Force - 99  
DLA - ES

Preparing activity:  
Air Force - 85

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